Invitel net&go Manager

User Manual

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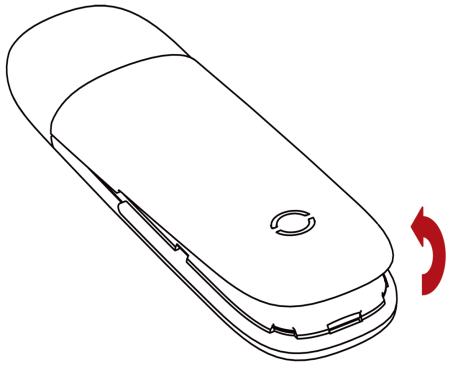
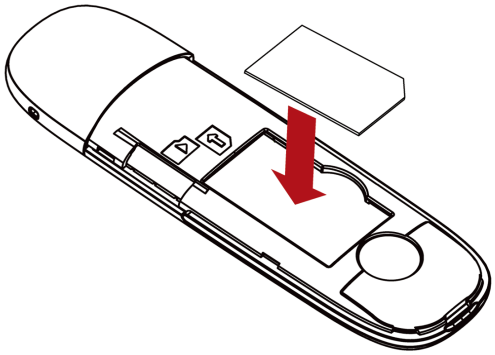
1. Installation of the ZTE MF190 HSUPA modem

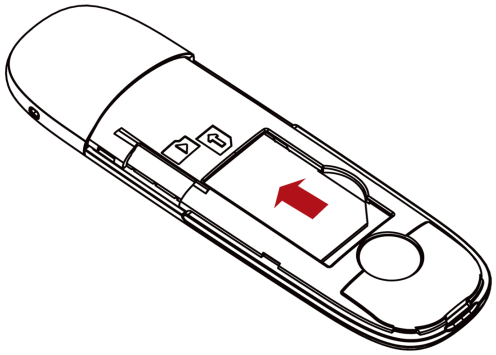
Connect to the Internet in four easy steps

1. Put finger on the bottom finger grip, and then lift the front cover of the modem to release and remove. Do not open the front cover rudely so as avoid the damage of the front cover.

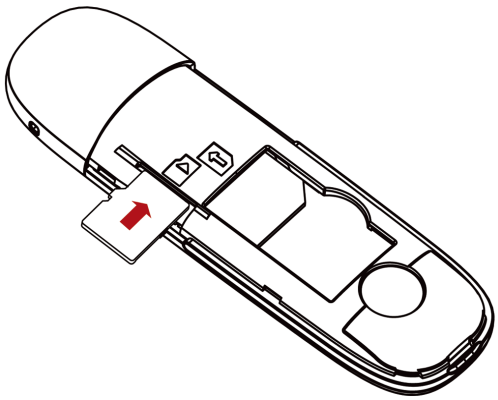


2. Insert the SIM card with the metal contact area facing downwards into the SIM card slot and then push SIM card as far as possible, shown as the following picture.

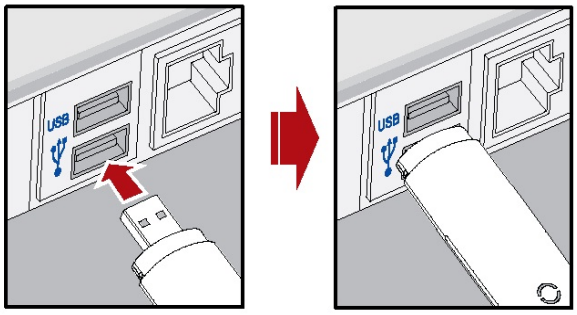




3. Insert your microSD card into the microSD card slot, shown as the following picture.
Put the front cover of the modem flatly upon the body of the modem. Direct the front cover towards the locking catches on the sides of the modem and push the front cover into his place.



4. Plug the modem into a free USB slot of your laptop or PC.
   Software installation starts automatically.



2. Introduction of the modem

Introduction

To guarantee that the modem is always in its best condition, please read this manual carefully and keep it for further use.

The pictures, symbols and contents in this manual are just for your reference. They might not be completely identical with your modem. We operate a policy of continuous development and we reserve the right to update the technical specifications in this document at any time without prior notice.

The ZTE MF190 HSPA modem is a type of multi-mode 3G modem, suitable for HSPA/ WCDMA/ EDGE/ GPRS/ GSM networks. It adopts a USB interface which provides an easy interface to laptop and desktop PC. mobile networks, It can help you carry out SMS or data service and will help you break away from the limit of time and location, and realize wireless communication at any moment everywhere.

Warning and notice

To the owner.

- Some electronic devices are susceptible to electromagnetic interference sent by the modem if inadequately shielded, such as electronic systems of vehicles. Please consult the manufacturer of the device before using the modem if necessary.
- Operating of laptop and desktop PC and modem may interfere with medical devices like hearing aids and pacemakers. Please always keep the modem more than 20 centimeters away from such medical devices when they are turned on. Turn the modem off if necessary. Consult a physician or the manufacturer of the medical device before using the modem.
- Be aware of the usage limitation when using a modem at places such as oil warehouses or chemical factories where explosive gases or explosive products are being processed. Turn off your modem if required.
- Don’t touch the inner antenna area if not necessary. Otherwise it will affect your modem’s performance.
- Store the modem out of the reach of little children. The modem may cause injury if used as a toy.

Modem

- Please use original accessories or accessories that are authorized. Using any unauthorized accessories may affect your modem’s performance and violate related national regulations about telecom terminals.
- Avoid using the modem near metallic structure devices or establishments that can emit electromagnetic waves. Otherwise it may influence receiving signals.
- The modem is non-waterproof, please keep it dry and store in a shady and cool place.
- Don’t use the modem immediately after a sudden temperature change. In such case it might produce dew inside and outside of the modem, so don’t use it until it becomes dry.
- Handle the USB modem with care. Don’t drop, blend, knock or threat it harshly to avoid damage to the unit.

- Do not dismantle the modem in any case. Only a professional or qualified maintainer can undertake repair work warrantly.

In aircraft

- Please power off the modem before the airplane takes off. In order to protect airplane's communication system from interference, it is never allowed to use the modem when in flight. Using it before the plane is taking off should get aircrew's permission according to safety regulations.

Applicability scope

The ZTE MF190 modem supports the present mainstream types of laptops and desktop PCs, such as HP, IBM, Toshiba, Lenovo, Dell, Asus, etc. as well as all Apple Computers running on Mac OS X 10.4 or later.

System requirements

Windows Operating System:
Windows XP (SP2/3)/Vista (SP1)
Windows 7

NOTE:
If the OS is Microsoft Vista, please update to SP1 before attempting to use the modem.

Hardware configuration (Recommended):
CPU: 500 MHz Pentium or above
Hard Disk: 30 MB or above
RAM: 128 MB or above

Apple Operating System:
Apple OS X 10.4 or later

Hardware configuration (Recommended):
CPU: PowerPC or Intel
Processor: 500 MHz or above
Hard Disk: 30 MB or above
RAM: 128 MB or above

The performance of the modem may be negatively influenced if configuration is below the recommended requirements.

Functions

Functions: SMS service, data service, applied management, data concurrence, support MicroSD card, etc.

3. Using the Invitel Net'n'Go Manager with Windows

Installation

Installation of the software

- Plug the stick into a free USB port on your PC.
- After a few seconds, the installation interface will be shown if the laptop or desktop PC supports automatic installation.

NOTE:
If the laptop or desktop PC doesn't support automatic installation, start the installation program by running the Install.exe which can be found at "My Computer / HSPA_MODEM" and follow the system prompts to complete the software installation.

- Click on the drop-down button to choose the setup language and click **"OK"**.
- Click **"Next"** to continue.
- Read the agreement carefully. If you agree, choose **"I accept the terms of the license agreement"**, and then click **"Next"**.
- Select the folder that you want to install the software to. You can select a different location by pressing **"Change"** and navigating to the desired location. To continue click **"Next"**.
- Wait until the setup procedure is completed and click **"Finish"** to end the installation.

NOTE:
If you have problems with installation after following the instructions above, please contact the shop or ZTE.

After the installation, a **"Invitel Net'n'Go Manager"** program group will be created in the start-menu, including **"Invitel Net'n'Go Manager"** and **"Uninstall"** shortcuts. There will also be a shortcut icon created on the desktop.

Launch the Invitel Net'n'Go Manager software

After the modem is correctly connected to the laptop or desktop, the **"Invitel Net'n'Go Manager"** will start automatically.

In case it does not start, click the "Start > Programs > **Invitel Net'n'Go Manager > Invitel Net'n'Go Manager"** shortcut on the laptop or desktop PC or double click the shortcut icon to run the application software. After the modem is initialized, the standby icon appears in the system tray and the modem can work properly. Double click on the icon to open the main interface.

Uninstalling the software

Close the application program before the software uninstalls.

- Click the “Start > Programs > **Invitel Net’n’Go Manager** > "Uninstall" shortcut on the laptop or desktop PC and follow the system prompts to complete the uninstall of the application software.
- Click **“Yes”** to confirm uninstall of the software.
- Click **“Yes”** according to the indication, then the system begins to uninstall programs.
- Wait until the process is completed and click “Finish” to end the application software uninstall.

4. Functions & Operation

Description of the Invitel Net'n'Go Manager GUI

Interface introduction

1. Shortcut icons	
The following table lists the shortcut icons provided by the **Invitel Net'n'Go Manager**.	
Icon	Description
	Display the **Connect** interface. Connect to the Internet/ Disconnection.
	Shows information about the current an past connections. Query the statistics of the transferred data.
	Display the **Settings** interface: Set normal relative information for the modem.
	Display the **SMS** interface
	Display the **Phonebook** interface

2. Status Information	
The following table lists all the possible status information.	
3. Status Information	Description
	The icon indicates the network signal strength.There are 6 stages from none to the strongest.
	Display the profile of the current network.The icon indicates the current network type, i.e. HSPA, EDGE, or GPRS service.

Main menu button area

Click the arrow icon to popup the operation menu:

Log: Shows the records of software usage.

About: View the information about the application software and modem hardware versions.

Help: Enter the MF190 HSPA modem software help.

Language: Choose the language of the GUI

Exit: Close the software and stop the modem from working.

Using the tray icons

Right click the tray icon to popup the operation menu:

Log: Shows the records of software usage.

About: View the information about the application software and modem hardware versions.

Help: Enter the MF190 HSPA modem software help.

Language: Choose the language of the GUI

Exit: Close the software and stop the modem from working.

5. Internet Services

Connecting the Internet

After setting the network and connection profiles, you can access the network through the **Invitel Net&Go Manager**. To access the Internet, do as follows:

1. Click .

2. Click the **"Connect"** button. The system will search for available networks automatically. You can click the **"Cancel"** button at any time to cancel the connection attempt.

3. Launch the browser on the PC or Notebook to access the internet.

When connected, the internet information area will show the amount of data transferred, the elapsed connection time and start your default internet browser. Then you can access the internet and receive emails etc. through the mobile network.

The **"Connect"** button will change to the **"Disconnect"** button. You can click the **"Disconnect"** button at any time to stop the connection to the internet.

6. Network settings

You can set the network settings with **Invitel Net'n'Go Manager**.

Selecting a Network Type

You can select different network types to search and access the network.

NOTE:

Contact your network service provider for the network type and frequency band.

1. Choose **Settings > Preference**.
2. Select the corresponding network type.
   - **Automatic:** The system selects the available network automatically.
   - **UMTS/HSPA Only:** The system will only select a UMTS/HSPA network.
   - **GPRS/EDGE Only:** The system will only select a GPRS/EDGE network.
3. Click **Apply**.

Selecting the Network

1. Click **Selection**.
2. Select **Automatic**, or **Manual**.

Automatic:

The system selects the network automatically based on the user's selected rules and the network status.

Manual:

The network is selected by users themselves.

1. Select **Manual**.
2. Click **Search**.
3. Select an operator name in the list.
4. Click **Apply**.

7. Connection settings

To ensure that the modem can connect to the Internet properly, you should configure the connection information first. To display the **Connection** interface do as follows:

1. Click .
2. In the navigation tree, click **Connection**.

NOTE:

For details about setting the profile, contact your service provider.

Creating a new Configuration

1. Click **Add** to set the a new Configuration name, access number, user name, password, Access Point Name (APN) and APN status
2. Click **Advance** tab to set the IP information, authentication protocol, Domain Name Server (DNS) and PDP type
3. Click **Apply** to save the advanced settings and return to the **Connection** interface.

NOTE:

If network supports "Obtain PDP server address automatically", the modem can obtain the assigned IP information automatically. If network does not support it, you should input the proper address manually. Please consult the network supplier of the SIM card for all above information. The confi-guration information may vary due to the different network suppliers and network types.

Editing a Configuration

1. Select a configuration in the **Configuration name** list.
2. Click **Edit** to modify the profile name, access number, user name, password, APN name.
3. Click **Advance** tab to set the IP information, authentication protocol, DNS and PDP type.
4. Click **Apply** to save the advanced settings and return to the **Connection** interface.

Deleting a Configuration

1. Select a configuration in the **Configuration name** list.
2. Click **Delete** and the Prompt dialog box is displayed.
3. Click **OK** to delete the setting; or click **Cancel** to cancel the deletion.

Setting a Configuration as Default

1. Select the configuration to be set as default in the **Configuration name** list.
2. Click **Apply** to set the selected Configuration as Default.

8. Data Record

You can view related information for your internet operation, such as transfer information, and data record. The transfer information includes transfer time, transfer rate, data stream and statistics information. The data record includes start time, end time, duration, upload and download.

NOTE:

The statistical data of the traffic is only for your reference. The actual traffic nformation is accounted on the basis of the traffic data collected by the operator.

Viewing the Data Record

To view the Dtat Record, do as follows:

1. Click .
2. To display the requested information in the Data Record menu, select one of the follows:
   - Transfer Data: To view the duration of the actual connection, the last reset time, and daily/monthly/yearly uploaded and downloaded data.
   - Data Record: You can review information about your internet activities, e.g: data transmission, information and data traffic. Within the data transmission information you can find the date of transmission, transmission speed, the data stream and statistical information. The data record includes the date of the beginning and end of transmission, duration, uploaded and downloaded data.

Resetting the Data Record

To reset the Transfer Data, do as follows:

1. Click .
2. Click **Reset** in **Transfer Data** tab.
3. In the Confirm dialog box, click **OK**.

Click **Cancel** to return to the main interface of the **Invitel Net'n'Go Manager**.

To reset the Data Record, do as follows:

1. Click .
2. Select records to be deleted in the **Data Record** tab and click **Delete**.
3. In order to delete all log information please select the "Clear" command.

Click **Cancel** to return to the main interface of the **Invitel Net'n'Go Manager**.

9. SMS-services

You can send and receive SMS via the Invitel Net'n'Go Manager application if your network provider supports that kind of services.

Creating and Sending SMS

With **Invitel Net'n'Go Manager** installed on your PC, you can send text messages to mobile phones or other terminal devices that support the SMS function.

NOTE:

You can group send a message to up to 20 phone numbers. Each number should be separated by ";".

1. Click to display the **SMS** interface.
2. Click **New**.
3. Enter the recipient number by using one of the following options:
   - Click **To**.... Then select one or more phone numbers by entering the **Phonebook**.
   - Enter the recipient number(s) directly.
4. Enter the message content.
5. After editing the message, you can choose the following options:
   - Click **Send**: To send the message.
   - Click **Save**: To save the message in the draftbox folder.
   - Click **Close**: To exit from editing the current message.

Inbox

Inbox stores the received messages.

To display the **Inbox** interface, do as follows:

1. Click to display the SMS interface.
2. Choose **Local > Inbox** or **SIM> Inbox** to display the **Inbox** interface

Reading SMS

- When receiving a new SMS, the system will pop-up a dialog box in the taskbar. You can then click **"OK"** to enter the SMS interface.

NOTE:

- *You can press and hold Shift or Ctrl, and click the selected messages;*
- *You can forward only one message a time.*
- *New messages can not be received when the SIM card space for SMS is full (different SIM cards have different capacities). The system will indicate that the inbox is full and ask the user to free up space in the inbox on the SIM card.*

You can view SMS in the **Inbox** as follows:

1. Click the selected message.
2. The name and phone number of the message sender, message content, and received time are displayed besides the messages.
3. Click the selected message for the following options:

   - **Reply:** In the **Reply** interface, re-edit the message and send it to the message sender.
   - **Forward:** Forward the message to another recipient.
   - **Save Num:** In the **Save Num** interface, enter other information and save the contact.
   - **Move:** Move the SMS to a different location (to computer or to SIM card). When the modem receives a new SMS, it will be saved to the SIM card by default. Afterwards it can be moved to the computer.
   - **Delete:** Delete the message..

Sentbox

Sentbox stores the sent messages, including the messages sent both successfully and unsuccessfully.

To display the **Sentbox** interface, do as follows:

1. Click to display the SMS interface.
2. Choose **Local > Sentbox** or **SIM > Sentbox** to display the Sentbox interface..

NOTE:
For further details, refer to „Inbox”.

Draftbox, Important, Deleted and Report

- **Draftbox** stores the drafts of messages.
- **Important** stores your important messages.
- **Deleted** stores the messages deleted from the local mailbox.
- **Report** stores the delivery notifications after sending messages.

NOTE:
- *For further details, refer to „Inbox”.*
- *If you delete the messages in the Deleted, the messages will be deleted permanently. Be cautious with your operation.*

SMS-settings

1. Click .
2. In the navigation tree click **SMS Settings**.

SMS Alerts Settings

You can set the audio alerts for SMS.

1. Click .
2. In the navigation tree click **Sound**.
3. Choose **SMS alert** option.
4. To change the default alert tone click **Browse**. These alerts will sound on the PC side.

The audio file supports MP3, WAV, WMA and MIDI format. If you select “Mute”, you cannot hear any corresponding alert.

NOTE:

*The SMS alert tone can be a *.wav or *.mid file.*

5. Click **Apply** to save settings.

Setting the SMS Center Number and SMS Validity Period

To set the SMS Center (SMSC) number and SMS Validity Period, do as follows:

1. Click .
2. In the navigation tree click **SMS Settings**.
3. Set the SMSC number and SMS validity period.

The SMSC number will be provided by the network supplier.

Setting Default Save Location for New SMS

1. Click .
2. In the navigation tree click **SMS Settings**.
3. Select **“PC”** to save in laptop or desktop PC; select **“SIM Card”** to save in SIM Card.

Setting State Report

You can select State report to enable the delivery report function. When the function is enabled, the network can deliver a status report of the sent SMS.

1. Click .
2. In the navigation tree click **SMS Settings**.
3. Select the State report> Enable check box.
4. Click **Apply** to save settings

10. Phonebook

You can manage contacts in the phonebook conveniently by the Invitel **Net'n'Go Manager**.

Phonebook Management

To enter the local phonebook, do as follows:

1. Click to display the Phonebook interface.
2. Click **PC/SIM** in the navigation tree.

Creating a new Contact

NOTE:

- *The contact information cannot be null or only contain spaces or new-line characters.*

1. Click **„New"** to add a new contact.
2. Select "save position" to decide where you want to save your contact, **"PC"** or **"SIM"**.
3. Enter the name, telephone number, Email address, etc. Then click **"OK"**.

Searching a Contact

NOTE:

- *You can enter any part of the contact information to search. Each field of the contact information is supported.*
- *When you search the contact, the contact list is updated automatically according to the information entered. The matched contacts in the searched group are displayed. When no matching contact is found in the group, no result is displayed..*

1. Enter the search conditions in the blank search field.
2. Click **"Search"** to begin searching.
3. The search results will display in the contacts window.

Viewing, Modifying, Moving, Deleting a Contact

You can view a contact as follows:

1. Enter the local phonebook, select a contact to view.
2. Click the selected contact and you can do as follows:

- **View:** View the detailed information of the selected contact.
- **Delete:** Delete the selected contact(s).
- **Move:** Move the selected contactto a different location (to computer or to SIM card).
- **Edit**: Change the information of the selected contact.

11. Settings and Information Query

Change the Language

The **Invitel Net'n'Go Manager** provides several interface languages for you.

1. Click on the drop-down button on the main interface or right click on the tray icon and select **Language** option.
2. Choos the language.

PIN Operations

If a SIM card is used in your terminal, the Personal Identity Number (PIN) code protects your card from unauthorized use. You can modify the PIN code and enable/disable the PIN verification.

NOTE:
The PIN code and PIN Unblocking Key (PUK) code are provided along with your SIM card. For details, contact your service provider.

Enabling/Disabling the PIN Verification

You can enable the PIN verification. If it is enabled, you need to verify the PIN code when launching the **Invitel Net'n'Go** Manager again.

- To enable: Choose **Settings > Security** > click **Enable** check box, then click **Apply** to save settings.
- To disable: Choose **Settings > Security** > unselect **Enable** check box, then click **Apply** to save settings.

Modifying the PIN Code

1. When "Enable" item is selected, you can click"Change" to modify the PIN code.
2. In the Modify PIN dialog box, enter the current PIN code and the new PIN code.
3. Enter the new PIN code again.
4. Click **Apply** to complete the modification.

NOTE:
The PIN code should be a numeric string of 4-8 digits.

Entering the PIN Code

When the PIN verification is enabled, you need to enter the correct PIN code to use the network-related functions.

1. After the Invitel **Net'n'Go Manager** is launched, the Enter PIN dialog box is prompted.
2. Enter the correct PIN code.
3. Click **OK** to complete the verification.

NOTE:
*If you enter wrong PIN codes for a preset number of times, the SIM card is locked and you cannot use it until you enter the PUK code. The **Invitel Net'n'Go Manager** prompts you the remaining number of attempts for entering the PIN code or the PUK code.*

Unlocking the PIN

1. When the SIM card is locked, the Unlock PIN dialog box is displayed after you start the **Invitel Net'n'Go Manager**.
2. Enter the correct PUK code.
3. Enter the new PIN code.
4. Click **OK** to complete the modification.

Auto Start of Invitel Net'n'Go Manager

If **"Auto start when device is available"** item is selected, in **Settings > System**, when user inserts device into PC, the software will start running automatically.

Auto Connect to the Internet:

If **"Auto connect"** item is selected, in **Settings > System**, when the software is launched it will connect to the Internet automatically.

Saving User Data

If **"User data"** item is selected, in **Settings > System**, user data will be saved automatically, when the software is closed. Click **Browse** to change the folder of User data.

Viewing Diagnostics Information

Click on the drop-down button on the main interface or right click on the tray icon and choose **Diagnostics** to view information of the hardware, Terminal Management and Network settings, such as APN(s), PS network attachment, PS network registration, CS network registration, signal strength, network selection mode, network name, PIN code status, phone number(s), card serial number, application port, firmware, hardware version, card name, serial number, IMEI number.

NOTE:
The diagnostic information is subject to the terminal that is used.

Saving the Diagnostics Information

NOTE:
*The diagnostic information can be saved in a *.txt file.*

1. Choose **Diagnostics > Open**.
2. View the diagnostic information of the terminal device.
3. Choose **Save** option.

Updating the Invitel Net'n'Go Manager

To update the **Invitel Net'n'Go Manager** online and to set the checking for update period choose **Settings >Update settings**.

Setting the period of new software checking and update

1. You can choose form the following options:
   - **"Check automatically every two weeks"**
   - **"Disable checking automatically"**
2. Click **Apply** to save settings.

Server data

URL: Set the URL.

port: Set the port.

Click **Apply** to save settings

Update now

If you click the **“Update Now”** button, the system will automatically search for new version information. If an update is found, the system will popup the new version description. Click **“Next”** button to continue.
Click **“Update”** button to update the software. While the system shows the installation progress, please wait until the software update is completed.

ATTENTION! During software updates always make sure that your computer receives continuous power (by a charged battery, UPS etc). Never remove the device during the update process, you must wait until the update is finished successfully, otherwise the device may be damaged and this voids the warranty!

NOTE:
The software update is made by the user at his own risk, the manufacturer and the retailer does not take any responsibility for any damage that may be a result of that process. Software update possibilities depend on the software and the service provider, your telephone set may not support that function. The update process may generate approximately 20-40 Mbyte data traffic which may result in charged traffic fees.

12. FAQ and Answers

When you encounter one of the following problems while using the MF190 HSPA modem, please refer to the following answers to solve it. If the problems still exist, please contact your supplier.

Problem Description	Possible Causes	Problem Solving
The system cannot run the installation program automatically.	The system configuration is having difficulty with the auto-run software.	The device will appear as a virtual CD-ROM on the PC's start menu. Click on the icon and start the install.exe. If you have previously installed a version of the program, please uninstall it first.
After installation, the system doesn't install the driver program properly.	The system configuration is having difficulty with the auto-run software.	Please install the driver program manually. The driver program can be found in installation folder. The path is usually the follows: *C:\Program Files\Invitel Net'n'Go Manager\drivers*
After the device is plugged in, the Invitel Net'n'Go Manager program doesn't run automatically.	The system configuration is incorrect.	Please open the Invitel Net'n'Go Manager program manually. You can find it in *Start->Program->Invitel Net'n'Go Manager* or on the desktop.
After restarting the computer, there is no signal indicated.	1. You are in the place where there is no GSM/ GPRS/EDGE/ WCDMA/ HSDPA (HSUPA) network coverage. Such places include underground parking garages, tunnels, and some remote rural areas.	1. Change location to find a place with better signal coverage.
	2. The device is not properly connected.	2. Close the device safely as usual, pull out the device and reinsert the device again.
	3. The SIM card isn't inserted properly.	3. Remove and reinsert the SIM card correctly.
	4. The MODEM device is positioned in such a way as that it adversely affects the devices signal reception.	4. Adjust the angle/position of the MODEM device or its proximity to other electronic devices.

Problem Description	Possible Causes	Problem Solving
When the device is being installed, the computer cannot find it.	1. The installation programs of the MODEM device have not been installed properly.	1. Run the installation program first then connect the device. Now install the drivers as normal in Windows.
	2. The device is not connected properly.	2. Restart the computer, or reconnect the device.
	3. The SIM card is not inserted properly.	3. Remove and reinsert the SIM card correctly.
Sent message failure.	1. The SMS center number is incorrect.	1. Your device is preconfigured so it is unlikely that it will need changing. However if it is missing or incorrect contact your operator.
Data connection failed.	1. You are in a place where there is no GSM/GPRS/EDGE/ WCDMA/ HSPA(HSUPA) network coverage.	1. Move to an area with a better coverage.
	2. The network is busy.	2. Try later..
	3. The APN in the user configuration file is incorrect.	3. Check the APN in the user configuration file in the "Network settings".
	4. The device data is corrupted.	4. Local network access or the target server maybe experiencing problems. Retry data request.
	5. The network type has been selected manually, but is incorrect.	5. Reselect the network type according to the type of the SIM card.

Problem Description	Possible Causes	Problem Solving
Connected to the internet, but it cannot open any website page.	1. After connection, you are unable to open web pages.	1. Check that the APN in the configuration files is correct.
	2. IE browser is causing problems.	2. Upgrade to the new version or reinstall the IE browser.
	3. Your operating system maybe infected by a virus. Worm blaster for example can affect upload and downloaded data flow, resulting in an inability to access a website.	3. Use a professional anti-virus software to check and remove the virus.
	4. You have connected to an APN which cannot connect to the Internet.	4. This happens when you are changing any preset operator value in the setting section. Check the entry and enter the correct APN from your operator.
The modem cannot connect to the Internet while you are travelling.	You USB modem is not permitted to roam between provinces.	Contact with the network supply provider.

13. Acronyms and Abbreviations

3G The Third Generation

APN Access Point Name

DNS Domain Name Server

GPRS General Packet Radio Service

GSM Global System for Mobile communications

PIN Personal Identification Number

PUK PIN Unblocking Key

SIM Subscriber Identity Module

WINS Windows Internet Name Service